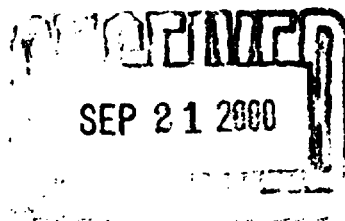


142959



ANALYTICAL REPORT


JOB NUMBER: 200382

Prepared For:

RMT
222 S. Riverside Plaza
Suite 820
Chicago, IL 60606

Attention: Rae Mindock

Date: 09/18/2000


Signature

Name: Eric A. Lang

Title: Project Manager

9/18/00
Date

Severn Trent Laboratories
2417 Bond Street
University Park, IL 60466-318

PHONE: (708) 534-5200
FAX.: (708) 534-5211

SAMPLE INFORMATION

Date: 09/18/2000

Job Number.: 200382
 Customer...: RMT
 Attn.....: Rae Mindock

Project Number.....: 20000334
 Customer Project ID....: RIVERDALE CHEMICAL
 Project Description....: Riverdale Chemical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
200382-1	DSL6	Soil	09/11/2000	14:45	09/11/2000	16:00

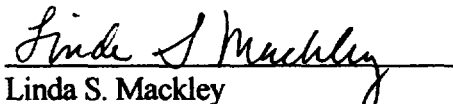
STL Chicago
Pesticide Case Narrative

RMT
Riverdale Chemical
Job #: 200382-1
TCLP Pesticides

1. STL Chicago used the following Gas Chromatographic systems for the analysis of these pesticides:

<u>ID#</u>	<u>INSTRUMENT</u>	<u>COLUMN TYPE</u>	<u>DETECTOR</u>
05	Varian 3400	ZB-5	Electron Capture
06	Varian 3400	Rtx-35	Electron Capture

2. This TCLP extract was extracted based on SW846 method 3510. The extracts were analyzed for TCLP pesticides based on SW846 method 8081A.
3. All required holding times were met for the extraction and analysis.
4. The method blanks were below the reporting limits for all target compounds.
5. The surrogate compounds used for this analysis were Decachlorobiphenyl (DCB) and Tetrachloro-m-xylene (TCX). All surrogate recoveries were within statistical control limits.
6. All blank spike recoveries were within statistical control limits.
7. A matrix spike was performed on this sample. Statistical control limits established for a water matrix are used as advisory for TCLP samples. All recoveries were within statistical control limits, with the exception of Heptachlor epoxide, which was biased high with 140% recovery. Heptachlor epoxide was not detected in the associated sample.
8. All initial and continuing standard calibrations associated with this sample were in control for all target compounds.


Linda S. Mackley
Organics Section Manager

9-18-00
Date

LABORATORY TEST RESULTS						
Job Number: 200382	Date: 09/18/2000					
CUSTOMER: RMT	PROJECT: RIVERDALE CHEMICAL	ATTN: Rae Mindock				
Customer Sample ID: DSL6 Date Sampled.....: 09/11/2000 Time Sampled.....: 14:45 Sample Matrix.....: Soil						
Laboratory Sample ID: 200382-1 Date Received.....: 09/11/2000 Time Received.....: 16:00						
TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
1311	TCLP Extraction TCLP Extraction, TCLP	Complete			09/13/00	lmr
8081A	Organochlorine Pesticide Analysis gamma-BHC (Lindane), TCLP Heptachlor, TCLP Heptachlor epoxide, TCLP Endrin, TCLP Methoxychlor, TCLP Toxaphene, TCLP Chlordane, TCLP	ND ND ND ND ND ND ND	2.5 2.5 2.5 5.0 25 50 10	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	09/16/00 09/16/00 09/16/00 09/16/00 09/16/00 09/16/00 09/16/00	lsm lsm lsm lsm lsm lsm lsm
3510C	Extraction for TCLP (Chlor.Pest) Separatory Funnel Liq/Liq Extraction, TCLP	Complete			09/15/00	dak

* In Description = Dry Wgt.

QUALITY CONTROL RESULTS					
Job Number.: 200382			Report Date.: 09/18/2000		
CUSTOMER: RMT		PROJECT: Riverdale Chemical		ATTN: Rae Mindock	
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date Time

Test Method.....: 8081A Units.....: ug/L Analyst....: lsm
Method Description.: Organochlorine Pesticide Analysis Batch.....: 3330

MB	Method Blank		3313		09/15/2000 2146
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
gamma-BHC (Lindane)	0	U						
Heptachlor	0	U						
Heptachlor epoxide	0	U						
Endrin	0	U						
Methoxychlor	0	U						
Toxaphene	0	U						
Chlordane	0	U						

LCS	Laboratory Control Sample		000HWLPTFA	3313		09/15/2000 2219
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
gamma-BHC (Lindane)	0.010			0.010000		100.0	56.0-125.0	
Heptachlor	0.009			0.010000		90.0	50.0-129.0	
Heptachlor epoxide	0.009			0.010000		90.0	59.0-126.0	
Endrin	0.010			0.010000		100.0	30.0-154.0	
Methoxychlor	0.104			0.100000		104.0	38.0-149.0	
Chlordane	0.009			0.010020		89.8	68.0-118.0	

LCS	Laboratory Control Sample		000HWLPTTA	3313		09/15/2000 2253
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Toxaphene	0.965			1.002000		96.3	65.0-138.0	

EB1	Extraction Blank 1			3313		09/15/2000 2326
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
gamma-BHC (Lindane)	0	U						
Heptachlor	0	U						
Heptachlor epoxide	0	U						
Endrin	0	U						
Methoxychlor	0	U						
Toxaphene	0	U						
Chlordane	0	U						

MS	Matrix Spike		000HWLPTFA	200382-1		09/16/2000 0033
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
gamma-BHC (Lindane)	0.010			0.010000	0	100.0	56-125	
Heptachlor	0.009			0.010000	0	90.0	50-129	
Heptachlor epoxide	0.014			0.010000	0	140.0	59-126	*
Endrin	0.010			0.010000	0	100.0	30-154	
Methoxychlor	0.109			0.100000	0	109.0	38-149	

Job Number.: 200382		QUALITY CONTROL RESULTS			Report Date.: 09/18/2000	
CUSTOMER: RMT		PROJECT: Riverdale Chemical			ATTN: Rae Mindock	
QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

MS	Matrix Spike	000HWLPTFA	200382-1		09/16/2000	0033
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Chlordane	0.009			0.010020	0	89.8		68-118	

MS	Matrix Spike	000HWLPTTA	200382-1			09/16/2000	0106
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Parameter/Test Description	QC Result	Q	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Toxaphene	0.992			1.002000	0	99.0		65-138	

Job Number.: 200382

SURROGATE RECOVERIES REPORT

Report Date.: 09/18/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Method.....: Organochlorine Pesticide Analysis
Method Code.....: 8081Batch.....: 3330
Analyst.....: lsm

Surrogate	Units
Decachlorobiphenyl (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
3313	TCLP	MB		0.034	0.04014	84.8	10.0-117.		09/15/2000	2146
3313	TCLP	LCS		0.027	0.04014	67.3	10.0-117.		09/15/2000	2219
3313	TCLP	LCS		0.021	0.04014	52.4	10.0-117.		09/15/2000	2253
3313	TCLP	EB1		0.034	0.04014	84.8	10.0-117.		09/15/2000	2326
200382-1	TCLP			0.036	0.04014	89.8	10.0-117.		09/16/2000	0000
200382-1	TCLP	MS		0.033	0.04014	82.3	10.0-117.		09/16/2000	0033
200382-1	TCLP	MS		0.031	0.04014	77.3	10.0-117.		09/16/2000	0106

Surrogate	Units
Tetrachloro-m-xylene (surr)	ug/L

Lab ID	Matrix	QC Type	Dilution	Result	True Value	Percent Recovery	Limits	Flag	Date	Time
3313	TCLP	MB		0.034	0.04012	84.8	15.0-130.		09/15/2000	2146
3313	TCLP	LCS		0.035	0.04012	87.3	15.0-130.		09/15/2000	2219
3313	TCLP	LCS		0.033	0.04012	82.3	15.0-130.		09/15/2000	2253
3313	TCLP	EB1		0.032	0.04012	79.8	15.0-130.		09/15/2000	2326
200382-1	TCLP			0.031	0.04012	77.3	15.0-130.		09/16/2000	0000
200382-1	TCLP	MS		0.034	0.04012	84.8	15.0-130.		09/16/2000	0033
200382-1	TCLP	MS		0.032	0.04012	79.8	15.0-130.		09/16/2000	0106

Job Number: 200382

LABORATORY CHRONICLE

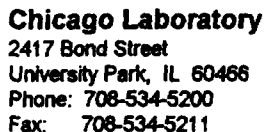
Date: 09/18/2000

CUSTOMER: RMT

PROJECT: RIVERDALE CHEMICAL

ATTN: Rae Mindock

Lab ID: 200382-1	Client ID: DSL6	Date Recvd: 09/11/2000	Sample Date: 09/11/2000		
METHOD	DESCRIPTION	RUN#	BATCH#	PREP #	DATE/TIME ANALYZED DILUTION
3510C	Extraction for TCLP (Chlor.Pest)	1	3313		09/15/2000 0000
8081A	Organochlorine Pesticide Analysis	1	3330	3313	09/16/2000 0000
1311	TCLP Extraction	1	3217		09/13/2000 0000



Contact: Same

Company: _____

Address: _____

Phone: _____

Fax: _____

PO#: _____ Quote: _____

Temperature °C of Cooler

Sample Labels and COC Agree

<input checked="" type="radio"/> Yes	<input type="radio"/> No	COC not present
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Additional Analyses / Remarks

Pesticides only

[illegible]

RECEIVED BY	COMPANY	DATE	TIME
RECEIVED BY	COMPANY	DATE	TIME

Preservative Key

1. HCl, Cool to 4°
2. H₂SO₄, Cool to 4°
3. HNO₃, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn Acetate, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:

Bill of Lading:

Glossary of LabNet Flags, Qualifiers and Abbreviations

Inorganic Qualifiers

- U Analyte was not detected at or above the reporting limit.
- < Not detected at or above the reporting limit
- J Result is less than the RL, but greater than or equal to the method detection limit.
- B CLP: Result is less than the CRDL, but greater than or equal to the instrument detection limit.
- S Result was determined by the Method of Standard Additions.

Inorganic Flags

- ^ ICV, CCV, ICB, CCB, ISA, ISB, CRI, CRA, MRL: Instrument related QC exceed the upper or lower control limits.
- H MB, EB: Batch QC is greater than reporting limit or had a negative instrument reading lower than the absolute value of the reporting limit.
- * LCS, LCD, MSD, MD, PS, PSD: Batch QC Exceeds the upper or lower control limits.
- N MS, MSD: Spike recovery exceeds the upper or lower control limits.
- 4 MS, MSD: The analyte present in the original sample 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
- E SD: Serial Dilution exceeds the control limits.
- W PS: Post-digestion spike was outside 85-115% control limits.
- + MSA correlation coefficient is less than 0.995.

Organic Qualifiers

- U Analyte was not detected at or above the reporting limit.
- ND Compound not detected
- J Result is an estimated value below the reporting limit or a tentatively identified compound (TIC).
- B Compound was found in the blank and the sample.
- M Manually integrated compound.
- Q Result was qualitatively confirmed, but not quantified.
- I Indicates the presence of an interference.
- C Pesticide identification was confirmed by GC/MS.
- Y The chromatographic response resembles a typical fuel pattern.
- Z The chromatographic response does not resemble a typical fuel pattern.

Organic Flags

- ^ MB, EB, MLE: Batch QC is greater than reporting limit.
- * LCS, LCD, CCV, MS, MSD, Surrogate, RS: Batch QC Exceeds the upper or lower control limits.
- D Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution will be flagged with a D.
- P The lower of the two values is reported when the percent difference between the results of two GC columns is greater than 25%.
- A Concentration exceeds the instrument calibration range or below the reporting limit.

Abbreviations

Batch	Designation given to identify a specific extraction, digestion, preparation set, or analysis set
CAP	Capillary Column
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
Contract	Contract laboratory identification code
CRA	Low Level Standard Check – GFAA; Mercury
CRI	Low Level Standard Check - ICP
Dil Fac	Dilution Factor
DL	Secondary dilution was performed
DL Fac	Detection Limit factor
DSH	Distilled Standard – High Level
DSL	Distilled Standard – Low Level
DSM	Distilled Standard – Medium Level
EB	Extraction Blank
ICB	Initial Calibration Blank
ICV	Initial Calibration Verification
IDL	Instrument Detection Limit
ISA	Interference Check Sample A
ISB	Interference Check Sample B
Job No.	The first six digits of the Sample ID which refers to a specific client, project and sample login group
LAB ID	An 8 number unique laboratory identification
LCD	Laboratory Control Standard Duplicate
LCS	Laboratory Control Standard with reagent grade water or a matrix free from the analyte of interest
MB	Method Blank or (PB) preparation blank
MD	Method Duplicate
MDL	Method Detection Limit
MLE	Medium Level Extraction Blank
MRL	Method Reporting Limit Standard
MSA	Method of Standard Additions
MS	Matrix Spike
MSD	Matrix Spike Duplicate
ND	Not Detected
PACK	Packed Column
PREPF	Calculation factor used by the Laboratory's Information Management System (LIMS)
PS	Post Spike
PSD	Post Spike Duplicate
RA	Re-analysis
RE	Indicates a re-extraction and analysis
RL	Reporting Limit
RPD	Relative Percent Difference of duplicate (unrounded) analyses
RRF	Relative Response Factor
RS	Reference Standard
RT	Retention Time
RTW	Retention Time Window
Sample ID	A 9 digit number unique for each sample; the first six digits are referred as the job number.
SCB	Seeded Control Blank
SD	Serial Dilution
UCB	Unseeded Control Blank

NOTES:

- ♦ One or a combination of these data qualifiers and abbreviations may appear in the analytical report.
- ♦ Soil, sediment and sludge results are reported on a dry weight basis except when analyzed for landfill disposal or incineration parameters. All other results on a solid matrix are reported on an "as received" basis unless noted differently.
- ♦ Reporting limits are adjusted for preparation sample size, sample dilutions and sample moisture content if analyzed on a dry weight basis.